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CO-GENERATED POWER SUPPLY SYSTEM

BACKGROUND OF THE INVENTION

Field of the Invention

The present invention relates to a novel co-generated power supply system, which is useful for co-generated power supply of a combination of natural energy and stable energy such as a fuell cell and power storage energy during the nighttime and midnight, and especially, which can efficiently supply electric power to a load by connecting a plurality of AC and DC energy sources to each other via an electronic transformer, a diode and an OR circuit.

Description of the Related Art

As a typical example of clean energy, the solar cell has been prevalant. Furthermore, the wind turbine generator has been introduced in local regions. Since in these types of natural energy, the duration of sunshine, the operation rate of a windmill or generated electric power fluctuates at all times due to variations in weather or meteorological situations, it is difficult to stably supply electric power. Therefore, natural energy is used as an auxiliary energy source while commercial electric power is mainly used in many cases under current circumstances.

However, an electric power supply system in the 21st century in which global warming is suppressed has been studied in a global scope, and thus, various types of efficient electric power supply means by co-generated power supply in closer touch with a consumption region have been studied in addition to conventional concentrated power generation by nuclear energy, thermal energy or hydraulic energy.

Moreover, in order to perform loadleveling, it is necessary to store surplus energy from a commercial AC line in a battery during nighttime and release this energy for use during daytime so as to efficiently actuate a power generation and distribution